

BBBBBBBBBBBB		00000000		00000000		TTTTTTTTTTTT		SSSSSSSSSS
BBBBBBBBBBBB		00000000		00000000		TTTTTTTTTTTT		SSSSSSSSSS
BBBBBBBBBBBB		00000000		00000000		TTTTTTTTTTTT		SSSSSSSSSS
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBBBBBBBBBBB		000	000	000	000	TTT	SSS	
BBBBBBBBBBBB		000	000	000	000	TTT	SSS	
BBBBBBBBBBBB		000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBB	BBB	000	000	000	000	TTT	SSS	
BBBBBBBBBBBB		00000000		00000000		TTT	SSSSSSSSSS	
BBBBBBBBBBBB		00000000		00000000		TTT	SSSSSSSSSS	
BBBBBBBBBBBB		00000000		00000000		TTT	SSSSSSSSSS	

[illegible]

(2)	56	DECLARATIONS
(3)	85	Main routine
(3)	123	EXIT_HANDLER

```

0000 1      .TITLE  SYSGENMN - SYSGEN UTILITY MAIN ROUTINE
0000 2      .IDENT  'V04-000'
0000 3
0000 4
0000 5 *****
0000 6
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0000 24
0000 25 *****
0000 26
0000 27
0000 28
0000 29      ++
0000 30      FACILITY:      SYSGEN
0000 31
0000 32      ABSTRACT:
0000 33      This module contains the main routine for the SYSGEN utility.
0000 34
0000 35      ENVIRONMENT:  USER, EXEC, AND KERNEL MODES
0000 36
0000 37      AUTHOR:  STEVE BECKHARDT,      CREATION DATE:  19-SEP-1979
0000 38      (ORIGINAL AUTHOR - LEN KAWELL)
0000 39
0000 40      MODIFIED BY:
0000 41
0000 42      V03-004 WHM0001      Bill Matthews      20-May-1983
0000 43      Do an implicit SET/OUTPUT=SYSS$OUTPUT: in order to detect whether
0000 44      or not SYSS$OUTPUT is a terminal.
0000 45
0000 46      V03-003 MSH0003      Maryann Hinden      13-Jul-1983
0000 47      No echo argument to BOO$GETPARAM.
0000 48
0000 49      V03-002 MSH0002      Maryann Hinden      03-Jun-1983
0000 50      Fix lock id specification for exit handler.
0000 51
0000 52      V03-001 MSH0001      Maryann Hinden      10-June-1983
0000 53      Move PUTERROR to separate module.
0000 54      --

```



```

0000 56      .SBTTL  DECLARATIONS
0000 57      :
0000 58      : INCLUDE FILES:
0000 59      :
0000 60      :
0000 61      :
0000 62      : MACROS:
0000 63      :
0000 64      :
0000 65      :          $CLIDEF                      ; DEFINE CLI CODES AND VALUES
0000 66      :
0000 67      :
0000 68      : EQUATED SYMBOLS:
0000 69      :
0000 70      :
0000 71      :
0000 72      : OWN STORAGE:
0000 73      :
00000000 0000 74 EXIT_BLOCK:      .LONG      0                      ; Data block for exit handler
0000007E' 0004 75                  .LONG      EXIT_HANDLER
00000001 0008 76                  .LONG      1
00000010' 000C 77                  .LONG      EXIT_STATUS
00000014 0010 78 EXIT_STATUS:    .BLKL      1
0014 79
3A 54 55 50 54 55 4F 24 53 59 53 00' 0014 80 OUTFILE:      .ASCII  /SYS$OUTPUT:/
0B 0014
0020 81
0020 82
00000000 83      .PSECT  PAGED_CODE      rd,nowrt,exe,long

```

```

0000 85      .SBTTL Main routine
0000 86      :++
0000 87      : Functional Description:
0000 88      : SYSGEN is the control module for the sysgen utility program which
0000 89      : provides functional commands for the creation, examination and
0000 90      : editing of parameter files, the creation of I/O data base and the loading
0000 91      : of device drivers.
0000 92      :
0000 93      : Calling Sequence:
0000 94      : CALLG ARGLIST,BOO$SYSGEN          called by the image activator
0000 95      :
0000 96      : Input Parameters:
0000 97      :
0000 98      : Output Parameters:
0000 99      :
0000 100     :--
0000 101     BOO$SYSGEN:: .WORD 0
0002 102     $LKWSET_S    INADR=BOO$GQ_LIMITS,-      ; Lock entire image in working set
0002 103     RETADR=BOO$GQ_RETADR      ; EXIT IF ERROR LOCKING PAGES, FATAL
0017 104     BLBC R0,10$      desblk = EXIT_BLOCK      ; Declare exit handler
001A 105     $DCLEXH_S      ; Exit if can't do it
0027 106     BLBC R0,10$      ; Null call back arguments
002A 107     CLRQ -(SP)      ; Address of request block
002C 108     PUSHAB L^BOO$AL_CLIBLK      ; Call utility service routine
0032 109     CALLS #3,@CLISA_UTILSERV(AP) ; Foreign command?
0036 110     CMPB #CLISK_VERB_FORE,L^BOO$AL_CLIBLK+CLISB_RQSTAT ; Branch if yes
003E 111     BEQL 5$      ; Clear command string descriptor
0040 112     CLRQ L^BOO$GQ_CMDESC      ; Use ACTIVE parameters
0046 113 5$: CALLS #0,BOO$USEACT      ; Set file length of SYSS$OUTPUT:
004D 114     MOVAB OUTFILE,G^BOO$GB_FILELEN; Set file address of SYSS$OUTPUT:
0058 115     MOVAB OUTFILE+1,G^BOO$GL_FILEADDR; Do a SET/OUTPUT=SYSS$OUTPUT: command
0063 116     CALLS #0,BOO$SET_OUTPUT      ; READ AND PROCESS COMMANDS
006A 117     CALLS #0,L^BOO$GETPARAM      ; CHECK FOR END OF FILE
0071 118     CMPL #RMSS_EOF,R0      ; NO, RETURN STATUS
0078 119     BNEQ 10$      ; SET NORMAL STATUS
007A 120     MOVL #1,R0
007D 121 10$: RET

```



```

007E 123      .SBTTL EXIT_HANDLER
007E 124      :++
007E 125      :
007E 126      PURPOSE
007E 127      Dequeue SYSGEN database lock - if being held.
007E 128      :
007E 129      INPUT
007E 130      BOO$LOCK_ID - identification of database lock.
007E 131      :
007E 132      OUTPUT
007E 133      Lock is dequeued.
007E 134      :
007E 135      :--
007E 136      :
0000 007E 137      .ENTRY EXIT_HANDLER, ^M<>
0080 138
50 0000'8F 3C 0080 139 10$: $CMEXEC_S      routin=DQLOCK
04 008F 140      MOVZWL #SS$_NORMAL,RO
0094 141      RET
0095 142
0095 143      :
0095 144      : Exec mode routine to dequeue locks
0095 145      :
0000 0095 146      .ENTRY DQLOCK, ^M<>
0097 147
04 0097 148      $DEQ_S lkid = BOO$LOCK_ID
00A8 149      RET
00A9 150
00A9 151
00A9 152      .END BOO$SYSGEN

```

```
$ST1          = 00000001
BOOSAL_CLIBLK ***** X 03
BOOSGB_FILELN ***** X 03
BOOSGETPARAM ***** X 03
BOOSGL_FILEADR ***** X 03
BOOSGQ_CMDESC ***** X 03
BOOSGQ_LIMITS ***** X 03
BOOSGQ_RETADR ***** X 03
BOOSLOCK_ID ***** X 03
BOOSSET_OUTPUT ***** X 03
BOOSSYSGEN    00000000 RG 03
BOOSUSEACT ***** X 03
CLISA_UTILSERV = 00000008
CLISB_RQSTAT  = 00000003
CLISK_VERB_FORE ***** X 03
DQLOCK        00000095 RG 03
EXIT_BLOCK    00000000 R 01
EXIT_HANDLER  0000007E RG 03
EXIT_STATUS   00000010 R 01
OUTFILE       00000014 R 01
RMS$ EOF ***** X 03
SS$ NORMAL ***** X 03
SYSSCMEXEC ***** GX 03
SYSSDCLEXM ***** GX 03
SYSSDEQ ***** GX 03
SYSSLKWSET ***** GX 03
```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
. BLANK .	00000020 (32.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABSS\$	00000000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
PAGED_CODE	000000A9 (169.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
-----	-----	-----	-----
Initialization	29	00:00:00.08	00:00:00.65
Command processing	107	00:00:00.68	00:00:04.81
Pass 1	165	00:00:02.40	00:00:07.26
Symbol table sort	0	00:00:00.27	00:00:00.77
Pass 2	44	00:00:00.60	00:00:00.84
Symbol table output	4	00:00:00.04	00:00:00.07
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	353	00:00:04.09	00:00:14.42

The working set limit was 1200 pages.
11616 bytes (23 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 212 non-local and 3 local symbols.

152 source lines were read in Pass 1, producing 20 object records in Pass 2.
14 pages of virtual memory were used to define 13 macros.

! Macro library statistics !

Macro library name	Macros defined
-----	-----
\$255\$DUA28:[BOOTS.OBJ]BOOTS.MLB;1	0
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	10
TOTALS (all libraries)	10

293 GETS were required to define 10 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SYSGENMN/OBJ=OBJ\$:SYSGENMN MSRC\$:SYSGENMN/UPDATE=(ENH\$:SYSGENMN)+EXECML\$/LIB+LIB\$:BOOTS.MLB/LIB

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VAX/VMS V4.0

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